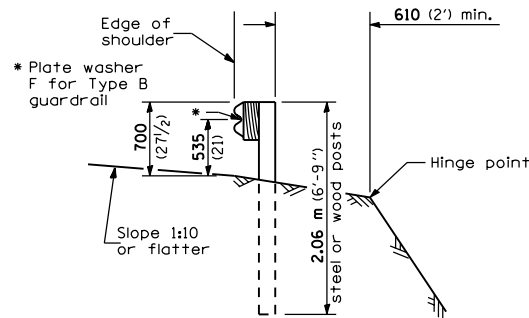
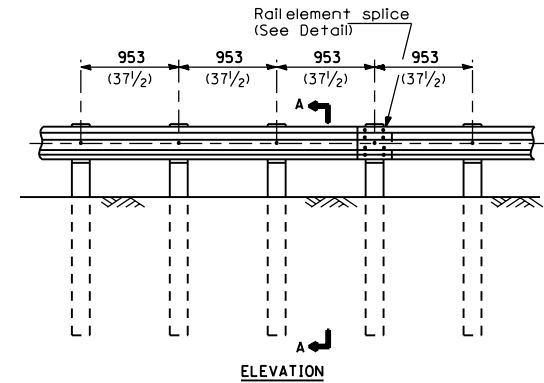


### TYPE A

1.905 m (6'-3") Typical post spacing

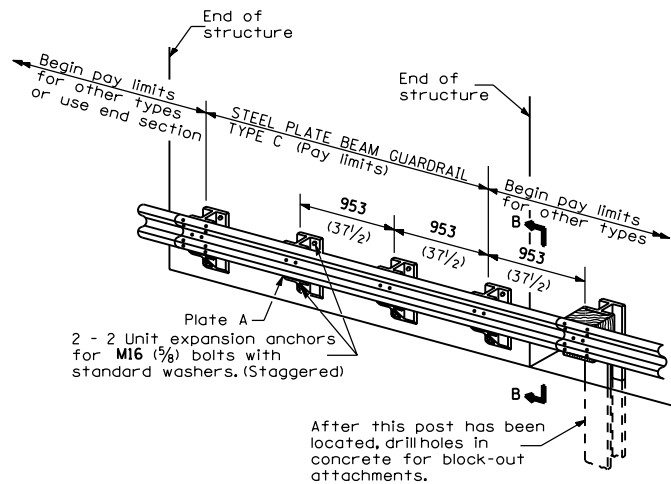


### SECTION A-A



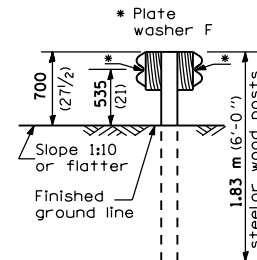
### TYPE B

953 (37 1/2) Closed post spacing

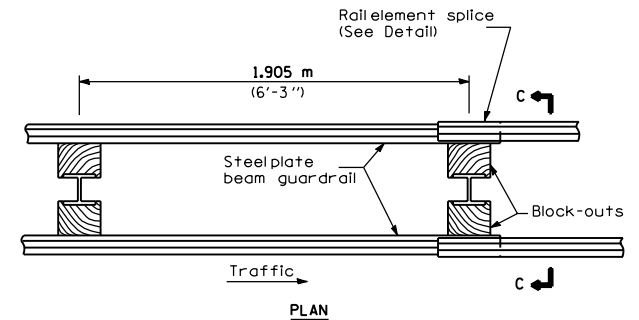


### TYPE C

953 (37 1/2) Block-out spacing

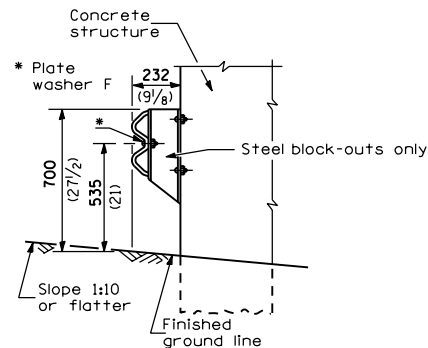


### SECTION C-C



### TYPE D

Double steel plate beam guardrail  
1.905 m (6'-3") typical post spacing



### SECTION B-B

### GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

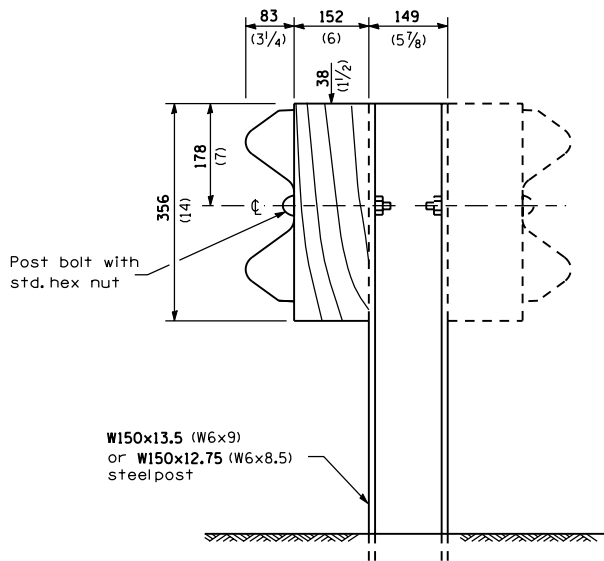
Illinois Department of Transportation	
PASSED	October 1, 2002
ENGINEER OF POLICY AND PROCEDURES	
APPROVED	October 1, 2002
ENGINEER OF DESIGN AND ENVIRONMENT	
ISSUED	1-1-97

DATE	REVISIONS
10-1-02	Added min. spacing from guardrail post to shoulder hinge point.
1-1-02	Revised the location of section B-B in Type C.

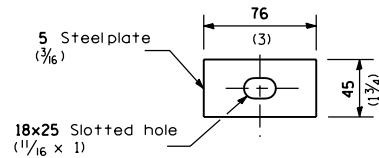
## STEEL PLATE BEAM GUARDRAIL

(Sheet 1 of 4)

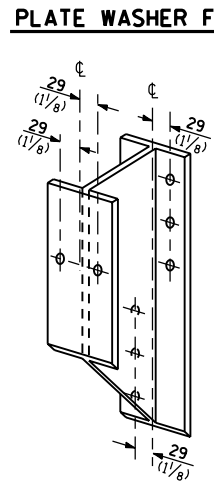
**STANDARD 630001-04**



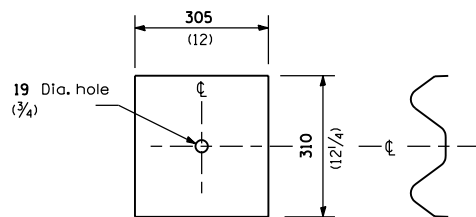
**STEEL POST CONSTRUCTION**



**NOTE**  
Plate washer F shall be used on type A guardrail only where specified. Plate washer F shall be used at all other locations where rail element is bolted to a block-out unless otherwise noted.



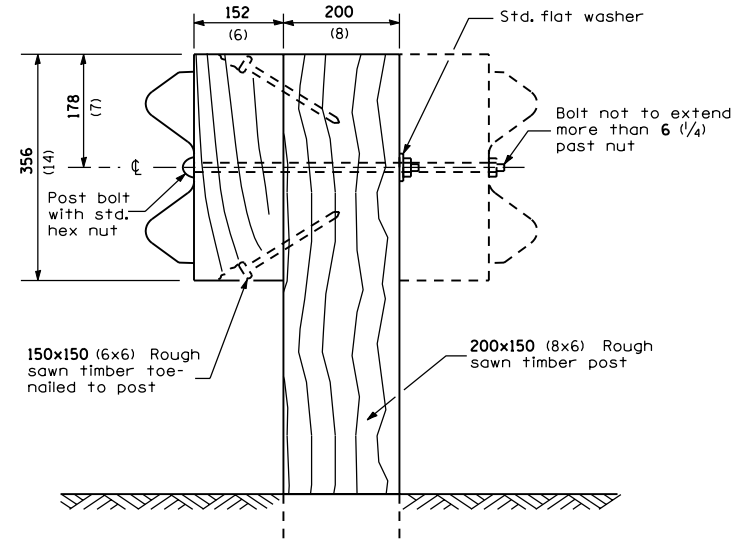
**STEEL BLOCK-OUT DETAIL**



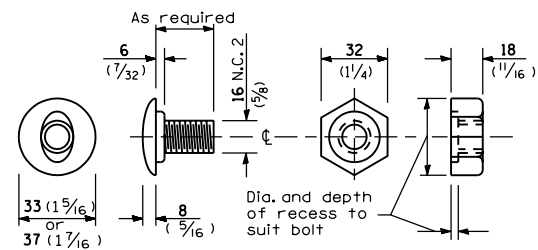
**NOTE**

Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

**PLATE A**

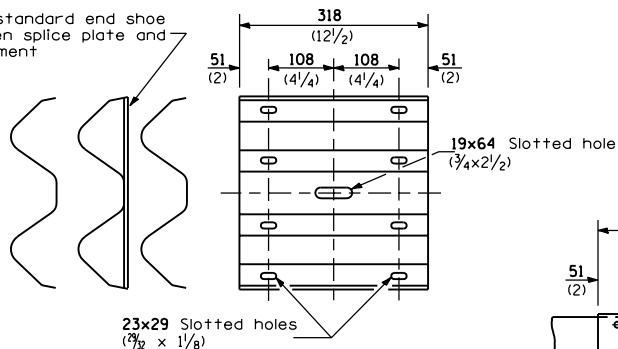


**WOOD POST CONSTRUCTION**

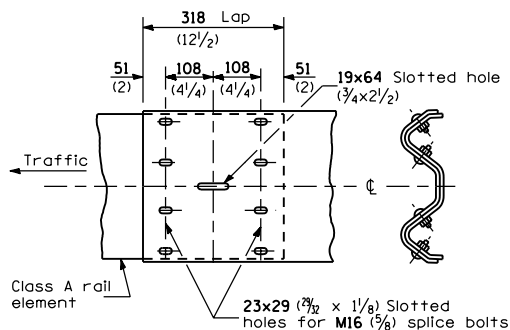


**POST OR SPLICE BOLT & NUT**

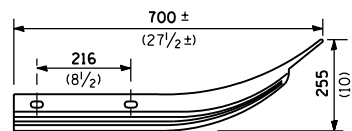
Place standard end shoe between splice plate and rail element



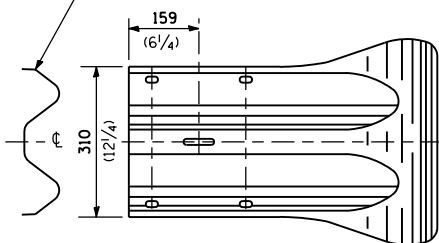
**SPLICE PLATE**



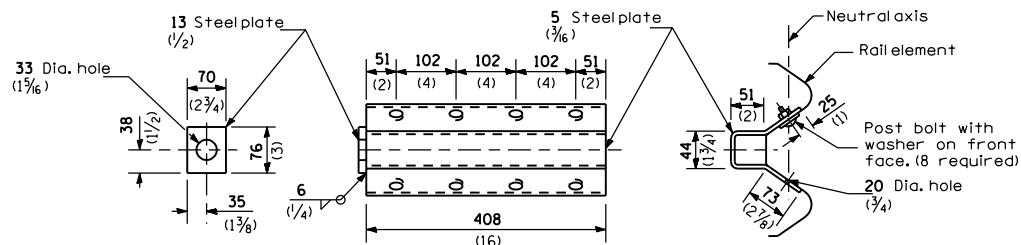
**RAIL ELEMENT SPLICE**



Class A rail element



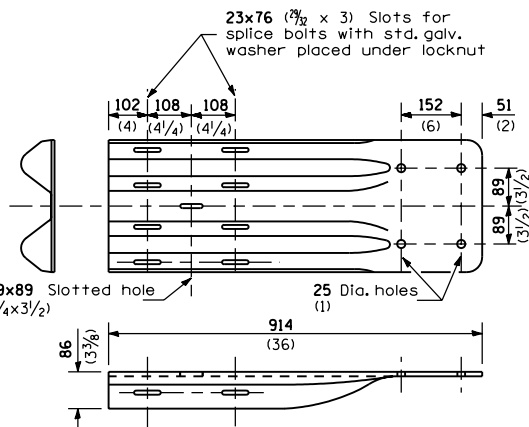
**END SECTION**



NOTE

Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

**ANCHOR PLATE T DETAILS**



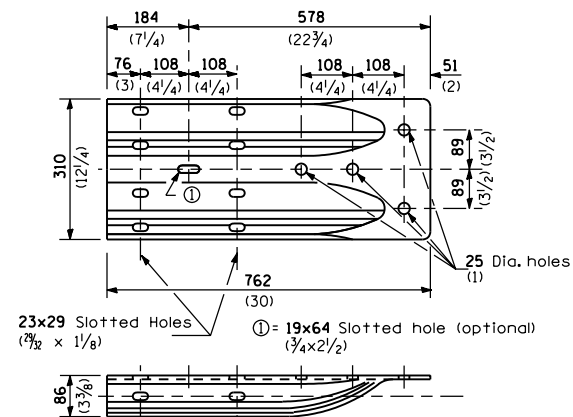
NOTE

When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

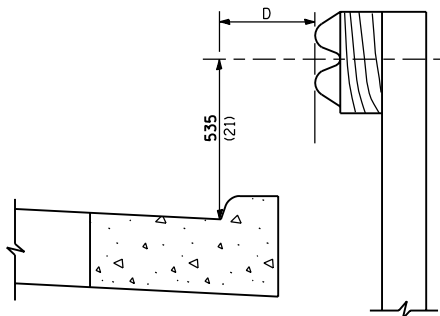
The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

**END SHOE**



**ALTERNATE END SHOE**

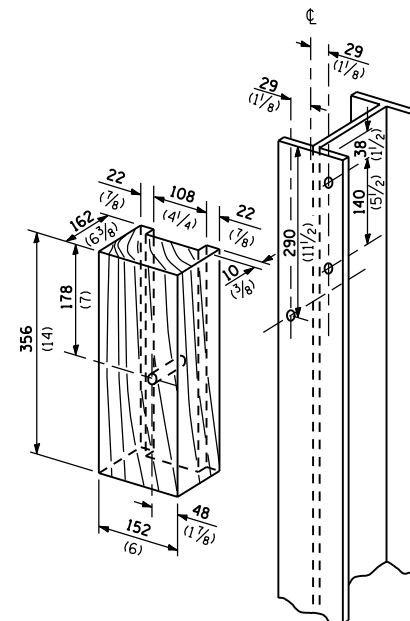


**NOTE**

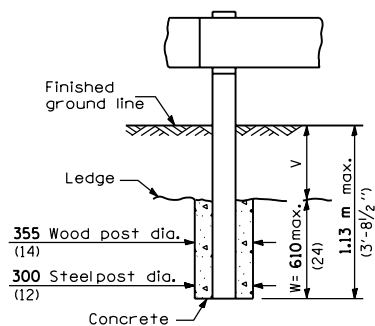
If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0") type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

**GUARDRAIL PLACED BEHIND CURB**

(D = 0 desirable to 300 (12) maximum)



**WOOD BLOCK-OUT AND  
STEEL POST DETAILS**

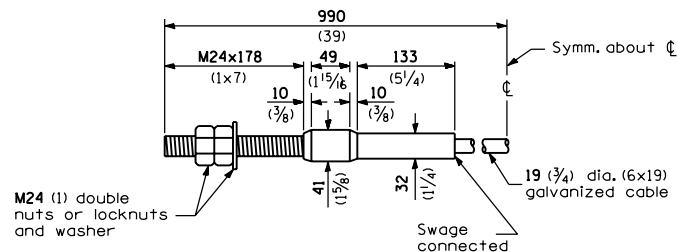


**NOTE**

When V is 0 to 520 (20 1/2), W= 600 (24).  
When V is greater than 520 (20 1/2),  
W= 1.13 m (3'-8 1/2")-V. When V is 150 (6)  
or less, post hole shall be filled to  
ground line with concrete.

Ledge line is top of rock ledge or  
hard slag fill.

**FOOTING FOR POST WHEN IMPERVIOUS  
MATERIAL IS ENCOUNTERED**



**CABLE ASSEMBLY**

(18,100 kg (40,000 lbs.) min. breaking strength)  
Tighten to taut tension.